

Kingfa PBT RG301

Polybutylene Terephthalate

Kingfa

Message:

Kingfa PBT RG301 is a polybutene terephthalate (PBT) material, which contains a 30% glass fiber reinforced material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa PBT RG301 are:

- flame retardant/rated flame
- Flame Retardant
- high strength
- Heat resistance

Typical application areas include:

- electrical appliances
- home apps
- Lighting equipment

General Information			
UL YellowCard	E171666-100139764	E171666-225737	E171666-101329546
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	No frost		
	High strength		
	Good electrical performance		
	Heat resistance, high		
	Flame retardancy		
Uses	Home appliance components		
	Household goods		
	Lighting device		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	0.30	%	ASTM D955
Transverse flow: 23°C	0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	120	MPa	ASTM D638
Tensile Elongation ² (Break)	2.6	%	ASTM D638
Flexural Modulus ³	9000	MPa	ASTM D790

Flexural Strength ⁴	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	220	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	210	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		UL 94
3.00 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	220 - 240	°C	
Middle Temperature	235 - 255	°C	
Front Temperature	240 - 265	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temperature Limit: 265°C			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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